Refrigerant R410A
INVERTER

Preliminary Info

Simultaneous cooling & heating operation with

Heat Recovery System

AIRSTAGE™ VR-II

Variable Refrigerant Flow System

High Energy Efficiency operation

Simple operation controller

Easy Design & Easy Installation

Speedy Maintenance

FUJITSU GENERAL LIMITED

Meets the needs for simultaneous

Heat recovery system provides optimum individual comfort by

FUJITSU GENERAL`s

Heat Recovery System

AIRSTAGE™ VR-II

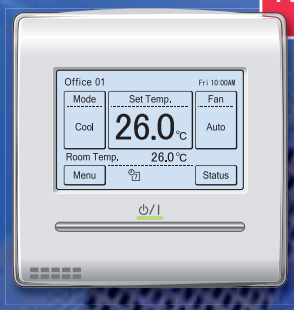
High energy efficiency operation using high efficient compressor !

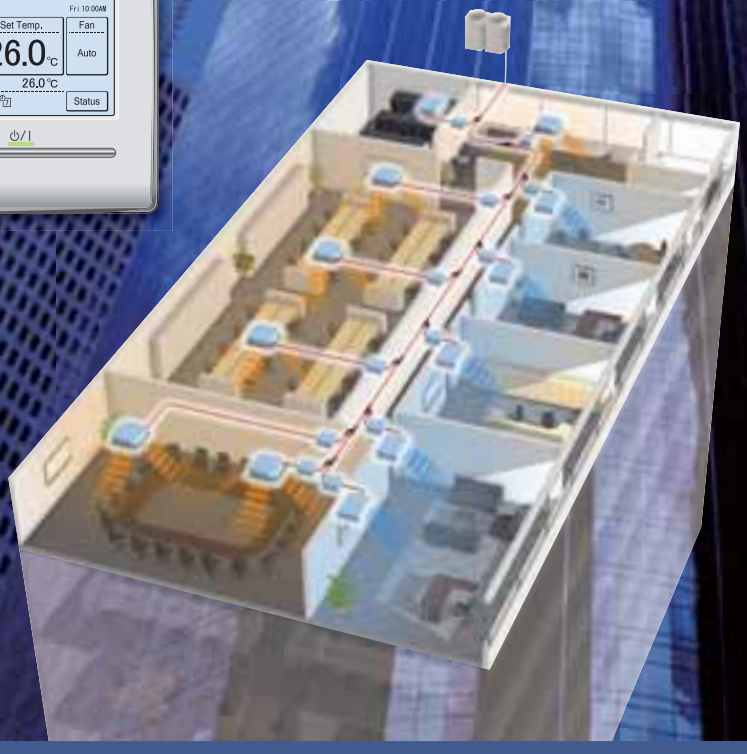
0.1 Hz steps high precision inverter compressor control

Simple operation large LCD touch panel controller !

Wired remote controller with the largest LCD touch panel in the industry

New





Easy design and easy installation with few restrictions !

Easy design and easy installation using flexible piping connections and RB units with few installation restrictions.

Supports speedy maintenance !

The indoor unit information can be checked using the remote controller to support speedy maintenance.

INDOOR UNITS

4-way
Compact Cassette

4-way
Cassette

Low Static Pressure Duct /
Concealed Floor

Slim Duct /
Slim Concealed Floor

Medium
Static Pressure Duct

High
Static Pressure Duct

Floor / Ceiling

Ceiling

Wall Mounted
(EEV External)

Wall Mounted

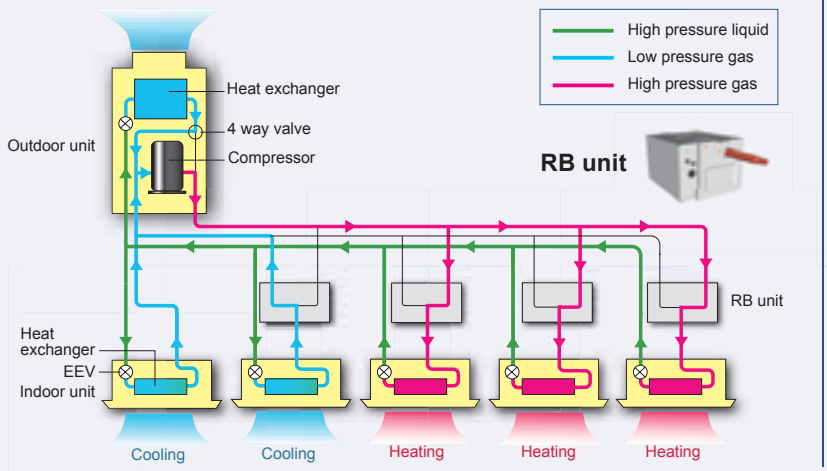
cooling and heating operation

changing over from cooling to heating

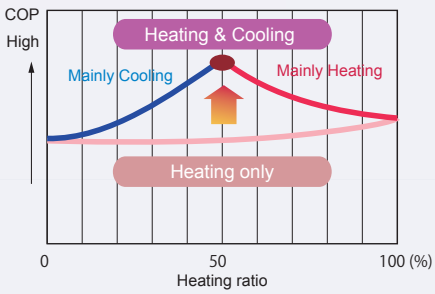
8 to 48HP

System outline

A heat recovery system achieve high energy efficiency by drawing heat from the room to be cooled and effectively using the heat as a heat energy for rooms to be heated. Simultaneous cooling and heating operation is possible by RB unit



Simultaneously as the cooling operation and heating operation, energy saving is up.



CONTROLLERS

Central Controller

Group Remote Controller

Central Remote Controller

Touch Panel Controller

System Controller (Software)

Individual Controller

Wireless Remote Controller

Simple Remote Controller

Wired Remote Controller (Touch Panel)

Wired Remote Controller

High Energy Efficiency

Energy efficiency technology boosted operation efficiency

Powerful large propeller fan

By using CFD*1 technology, A newly designed fan achieves high performance and low noise operation.

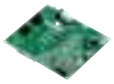
*1. CFD = Computational Fluid Dynamics

3 phase DC fan motor

Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.

Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

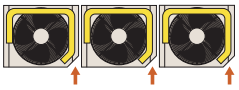


Sine-wave DC inverter control

High efficiency is realized by adoption of reduced switching loss IPM.

4-face heat exchanger

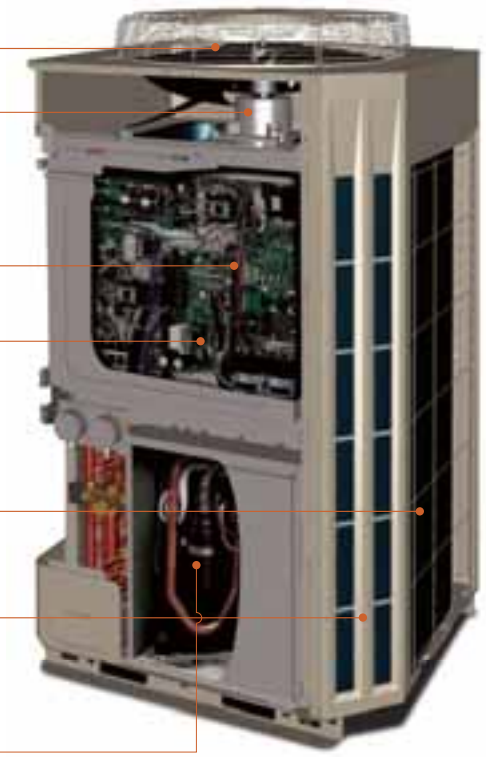
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



Front intake port

(corner cut air inhaling structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.



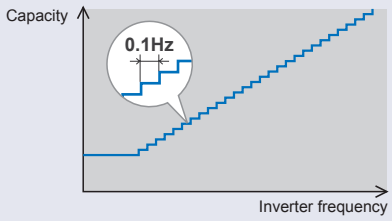
Remarkable Point! High efficient compressor

Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

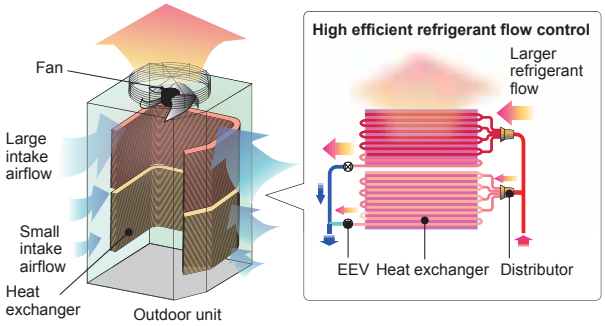
High efficient compressor speed control

Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



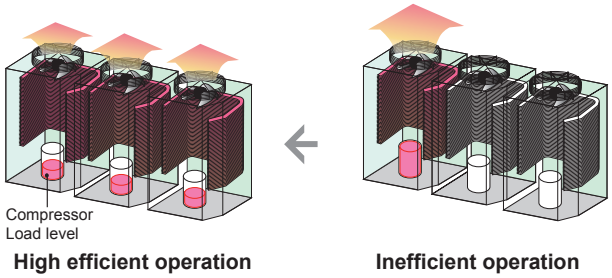
Ideal heat exchanger path control

Heat exchanger is split into top and bottom. Heat exchange efficiency is improved by optimum heat exchanger path refrigerant control. Refrigerant is more distributed at the top side heat exchanger with a large intake air flow.



Sophisticated operation control

When multi units are connected, sophisticated operation is performed by each compressor. Efficiency is improved by operating the rotary compressor in the good efficiency low speed range by using the heat exchangers to the full.

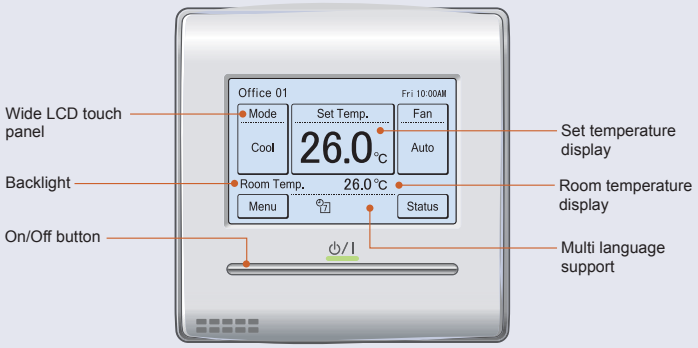


High efficient operation **Inefficient operation**

Comfort & Convenience

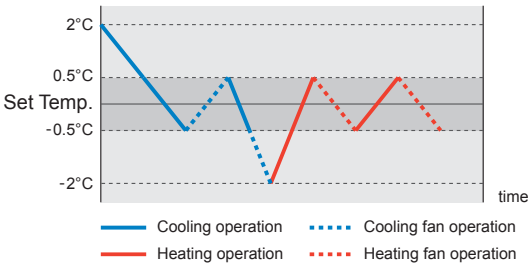
Remarkable Point! Simple operation Wired Remote Controller (Touch panel)

Wired Remote Controller equipped touch panel method with LCD panel is not only provision of simple operation but also can be managed with multi energy saving function.

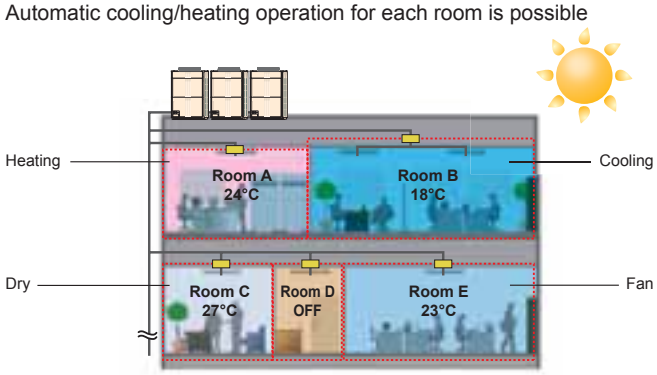


Auto changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.

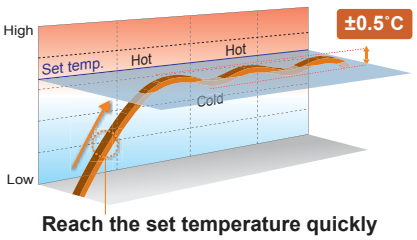


Automatic cooling/heating operation for each room is possible



Precision refrigerant flow control

Precision and Smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows for a high precision comfortable temperature control within ±0.5°C of set temperature.



Reach the set temperature quickly

Thermal change of the room

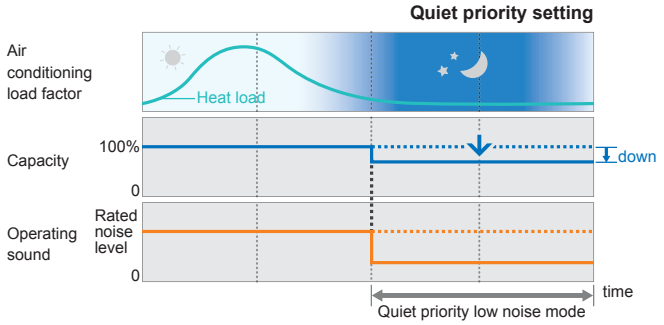
*Simulation in heating operation.

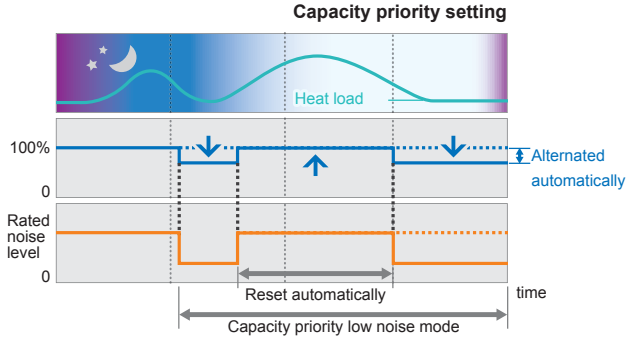
Comfortable operation is achieved due to a small variation of room temperature

Quiet operation

Low noise mode

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the usage environment and outside temperature load.
Outdoor unit external input and setting from system controller are possible.

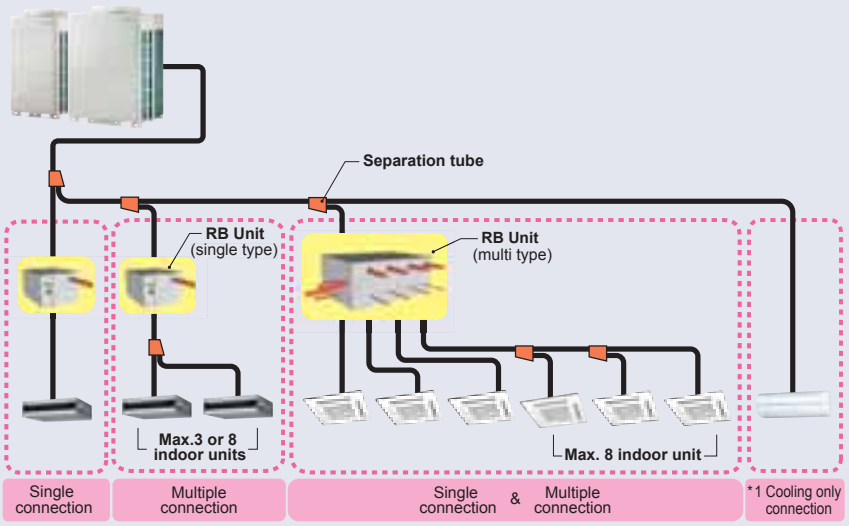




Design Flexibility

Flexible piping connection

More flexible refrigerant piping work is possible to adjust floor layout and building structure by various RB unit connection type.



- The RB unit can be freely positioned between the first branch and the indoor unit.
- The maximum height difference between RB units is 15 m.

*1. RB Unit is not necessary for cooling only use.

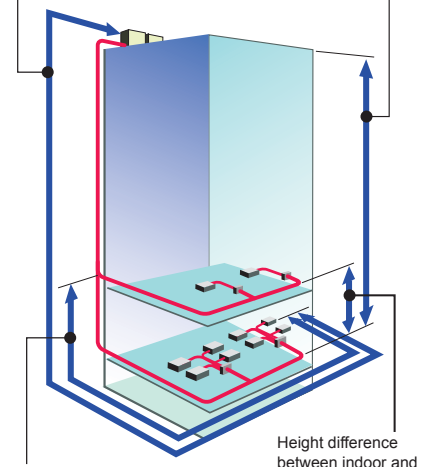
Overall piping length 1,000m

Total pipe length
1,000 m*2

Height difference between outdoor and indoor units
50m max.

Actual pipe length
165m max.

For the outdoor unit stated below : 40m max.



Pipe length from first separation tube to the farthest indoor unit
60m max.

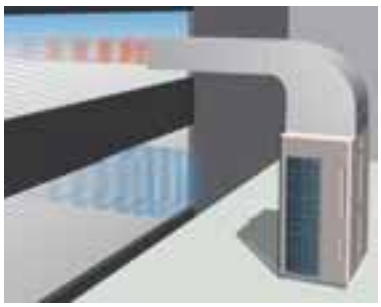
Height difference between indoor and indoor units
15m max.

*2. Note : When there is 1 outdoor unit, the maximum is 700m.

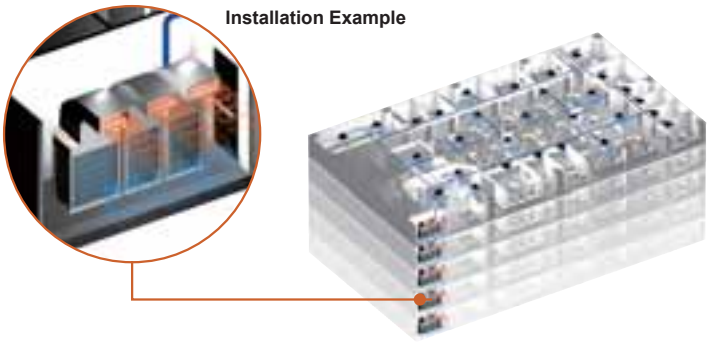
High static pressure of 80Pa

Large diameter fan and 3 phase DC motor has been utilized allowing an external static pressure of 80Pa. This allows outdoor units to be installed within balcony, etc. on each floor in high rise buildings.

80 Pa
as standard



Installation Example

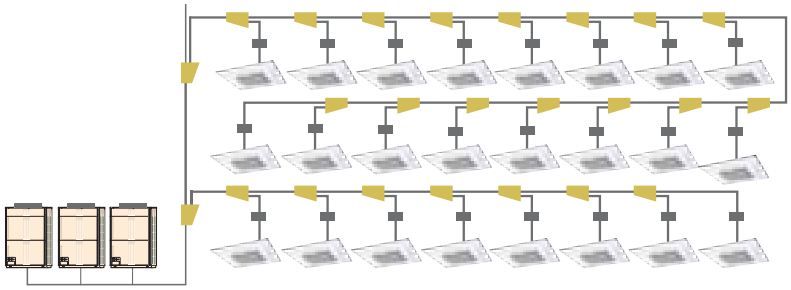


High capacity connection

Various combination from 8HP to 48HP with 2HP increments. 12 types, 55 models of indoor units can be selected ranging from 2.2kW to 25kW in capacity.
A maximum of 150% indoor unit connectable capacity.

Connectable indoor unit capacity
50% to 150%

Connectable indoor unit number
up to 64

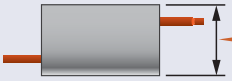


Easy Installation

Flexible installation of RB unit

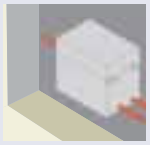
RBunit (single type)

- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions



Height 198mm

Both-sides installation freedom of the control box



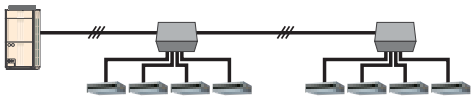
Upper-sides installation of the control box in a narrow space

RBunit (multi type)

- Small design saves space
- A drain pipe is not required
- Simple installation series connection design

- 2-way connection

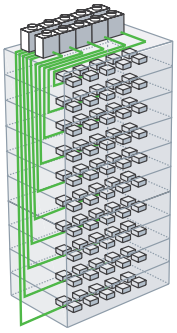
- Up to 2 units can be connected in series.



Simple wiring work

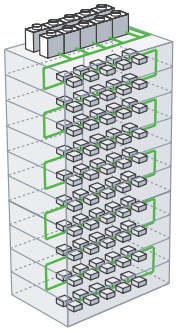
Installation is made as the communication wiring can be connected continiously to RB units and outdoor units.

Note: In a multiple refrigerant system installation, Automatic addressing sequence cannot be initiated

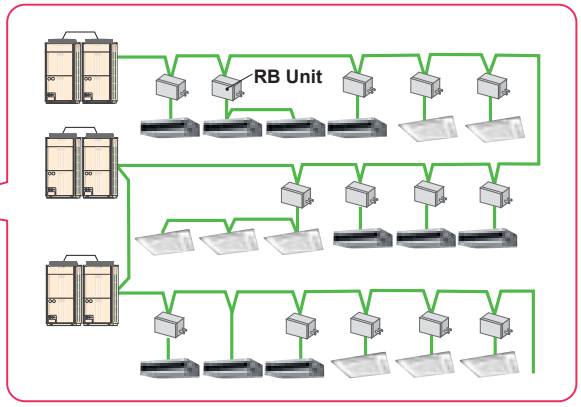


Parallel connection

or



Serial connection

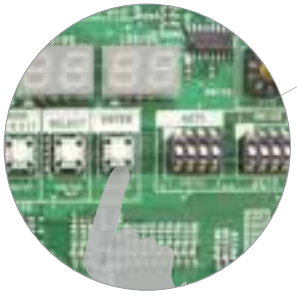


Up to maximum length 3,600m

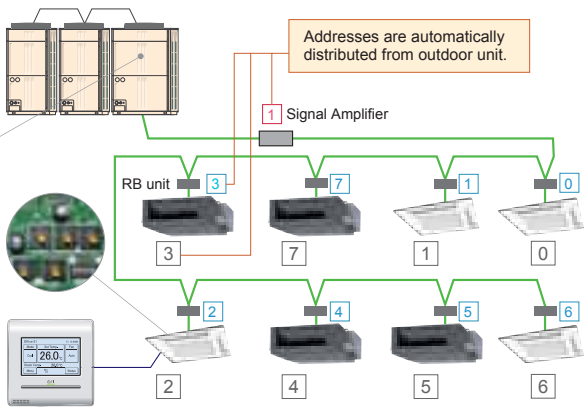
Automatic address setting

The address of each indoor unit, RB unit, and Signal Amplifier can be automatically set by button switch of outdoor unit.

Automatic address setting is performed at outdoor unit



Press the pushbutton switch of outdoor unit.



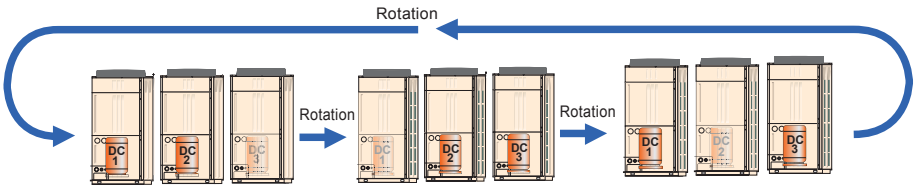
Manual address setting from indoor unit and remote controller is also possible.

High Reliability

Life-extending operation

Outdoor unit rotational operation

The compressor starting order is rotated so that the running time is shared.

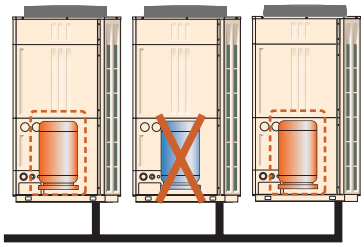


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

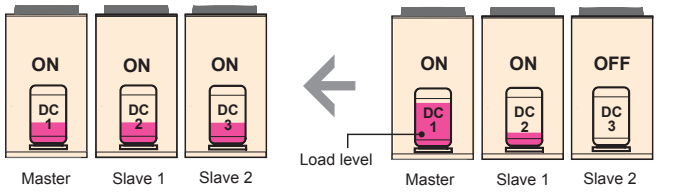
If one compressor fails, backup operation will be performed by the remaining compressors as emergency*.

*:Note: Backup operation may not be possible depending on the trouble state.



Equalization refrigerant control

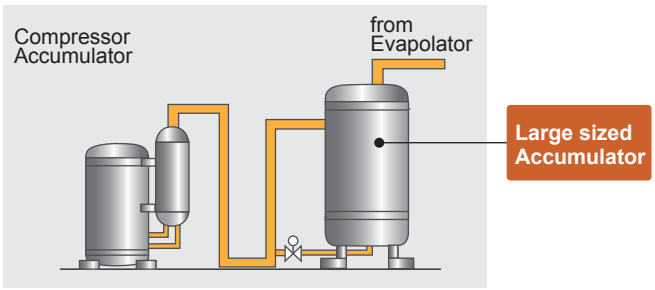
Introduced innovative compresoor control logic in order to balance refrigerant mass flow rate of each outdoor unit by controlling inverter speed.



Balance operation condition **Unbalance operation condition**

Liquid back flow protection

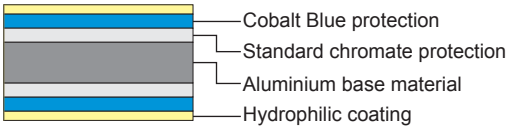
By adopting a large sized accumulator, the refrigerant which is not completely vaporized is left inside the accumulator and only a stable gas is fed to the compressor.



Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.

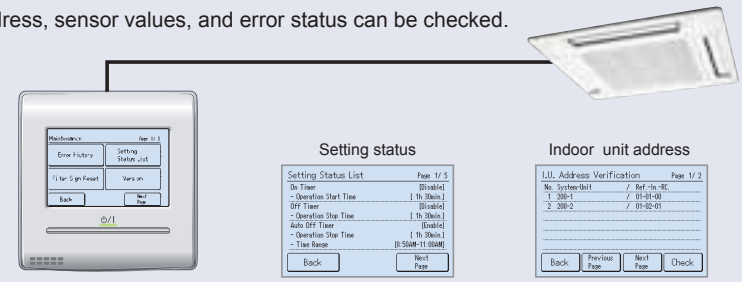
Blue fin heat exchanger



Easy Maintenance & Service

Remarkable Point! Various information or error status can be checked easily via Wired Remote Controller

Address, sensor values, and error status can be checked.

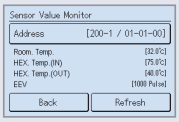


Wired Remote Controller (Touch panel)

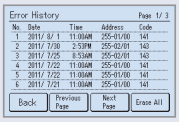
Setting status

Indoor unit address

Sensor value



Error status/ Error history



Design for easy service and maintenance

Inspection and replacement of main parts are easier due to innovative construction and an LED operational display.

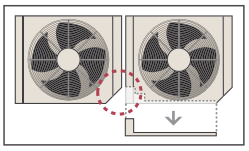
Consolidated electrical components make maintenace easy.

Movable PCB panel that allows for easier maintenance work behind the PCB.

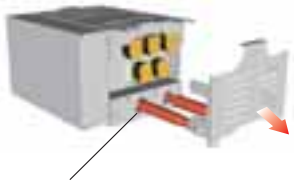
Easy-to-read 7-segment LED display which explains operational and trouble status

Split front panel allows for maintenance from top or bottom of the outdoor unit

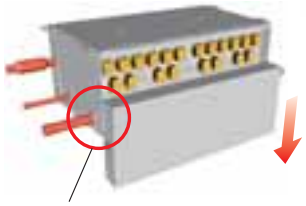
Expansion of work space



Maintenance of electrical components, valves, and compressor parts from the front is possible.



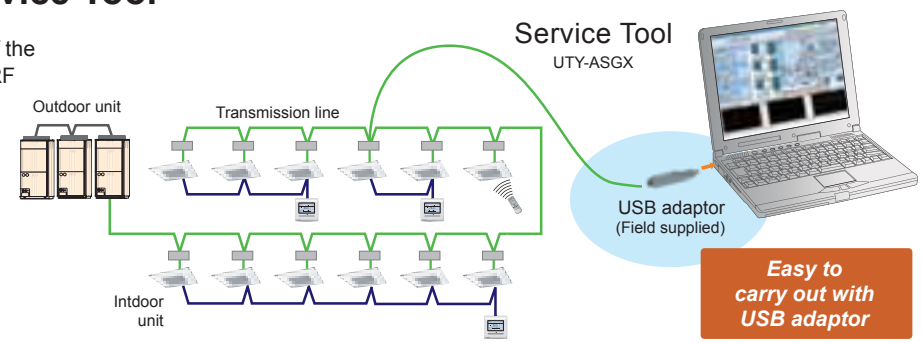
Solenoid valve can be removed from the side.



Electrics box can be temporarily fixed by sliding down.

Trouble diagnosis by Service Tool

Suitable maintenance is possible by analysis of the operation data. Connection anywhere in the VRF network system is easy.



Outdoor units lineup

Space saving combination

Rating Capacity range	HP	8	10	12	14	16	18	20	22	24
Model name		AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*162GALH	AJ*180GALH	AJ*198GALH	AJ*216GALH

Energy efficiency combination

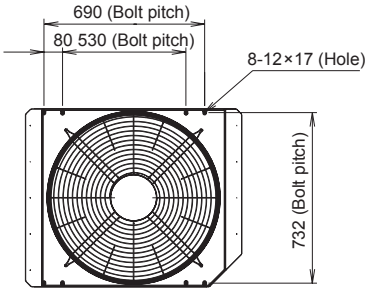
Rating Capacity range	HP	16	22	24	26	28	30
Model name		AJ*144GALHH	AJ*198GALHH	AJ*216GALHH	AJ*234GALHH	AJ*252GALHH	AJ*270GALHH

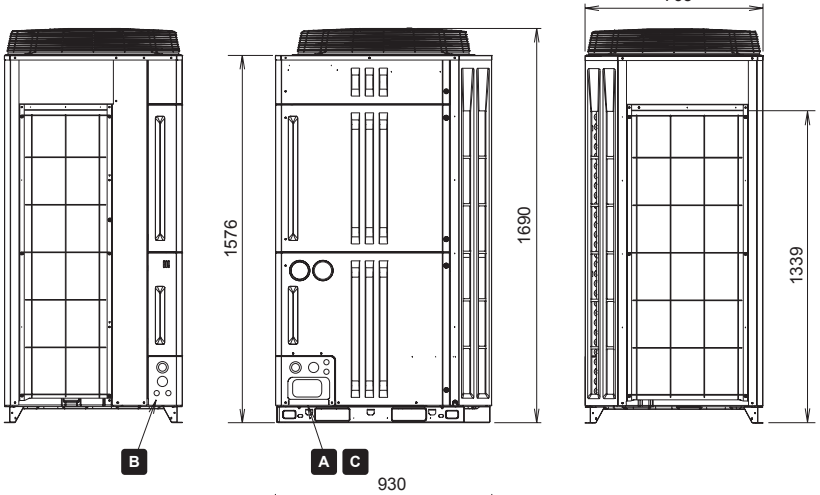
Dimensions

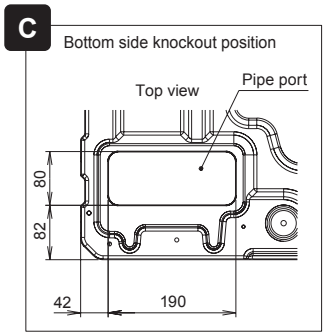
(Unit : mm)

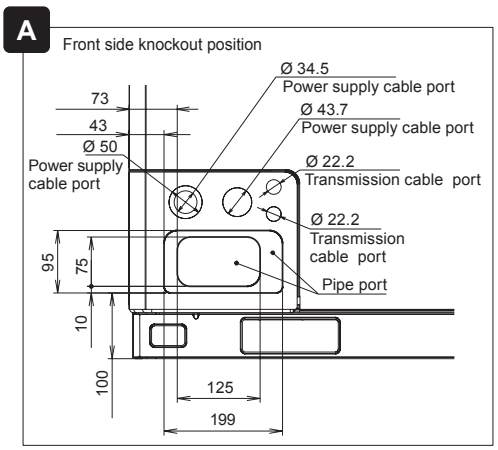
8, 10, 12HP

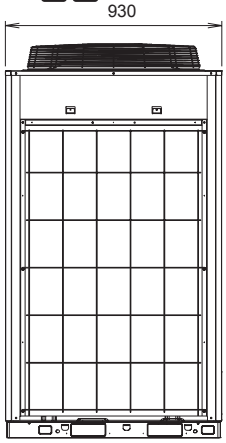
AJ*A72GALH / AJ*A90GALH / AJ*108GALH

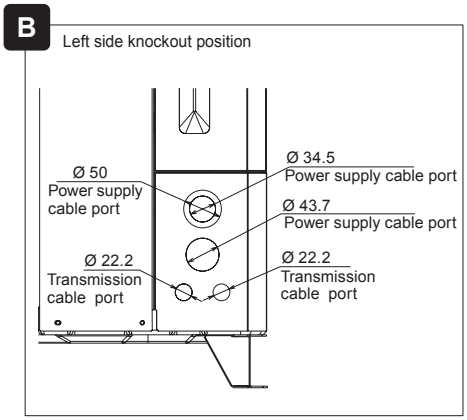












AJ* : AJY(FUJITSU), AJH(GENERAL)

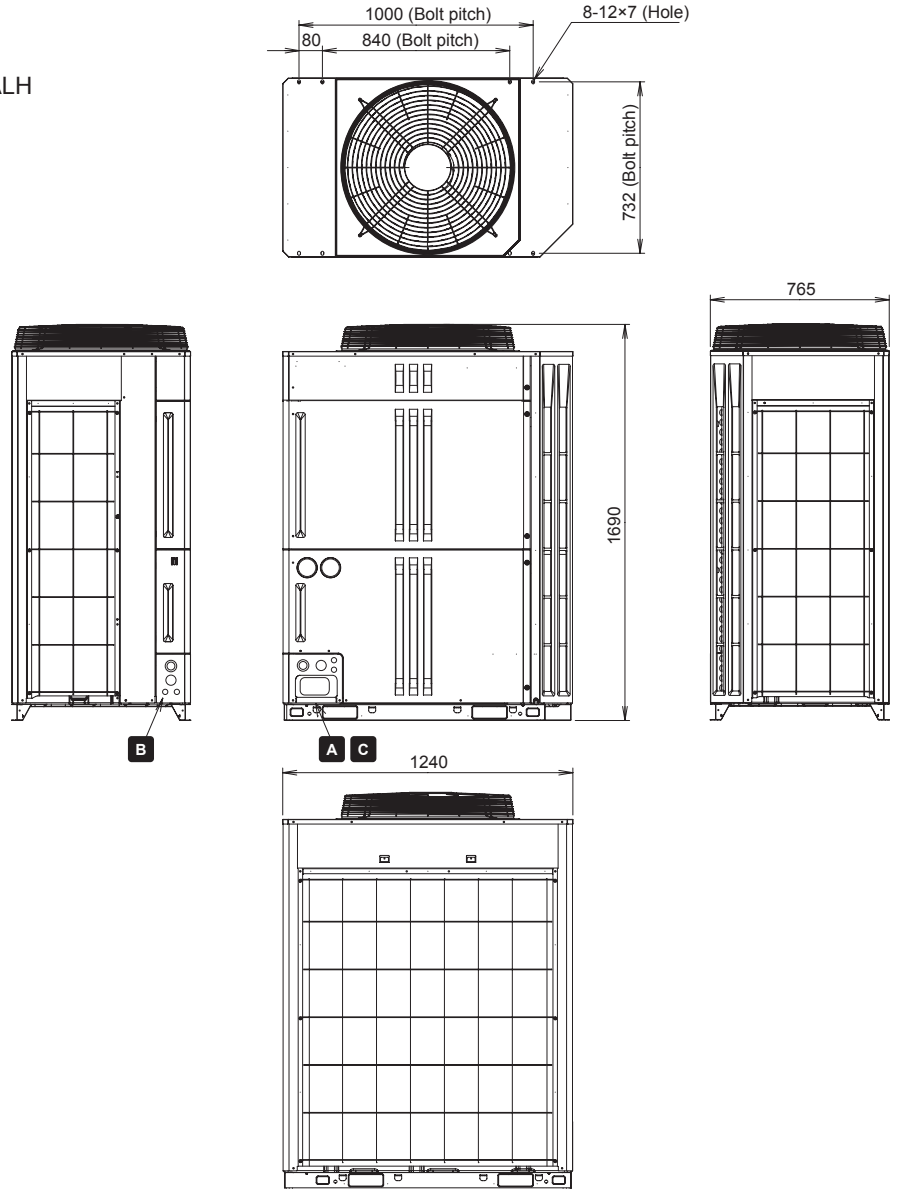
26	28	30	32	34	36	38	40	42	44	46	48
AJ*234GALH	AJ*252GALH	AJ*270GALH	AJ*288GALH	AJ*306GALH	AJ*324GALH	AJ*342GALH	AJ*360GALH	AJ*378GALH	AJ*396GALH	AJ*414GALH	AJ*432GALH

32	34	36	38	40	42	44
AJ*288GALHH	AJ*306GALHH	AJ*324GALHH	AJ*342GALHH	AJ*360GALHH	AJ*378GALHH	AJ*396GALHH

(Unit : mm)

14, 16HP

AJ*126GALH / AJ*144GALH



Specifications

Space saving combination

Rating Capacity range	HP		8	10	12	14	16	18	20	22	24
Model name			AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*162GALH	AJ*180GALH	AJ*198GALH	AJ*216GALH
Unit 1 Unit 2 Unit 3			AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*A90GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH	AJ*108GALH AJ*A90GALH	AJ*108GALH AJ*108GALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	27	30	32	35
Indoor unit connectable capacity	Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.4-67.2	25.2-75.6	28.0-83.9	30.8-92.3	33.5-100.5
Power source			3-phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Maximum external static pressure	Pa		80	80	80	80	80	80	80	80	80
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930	930	930	1,240	1,240	930×2	930×2	930×2	930×2
	Depth	mm	765	765	765	765	765	765	765	765	765
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	˚C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy efficiency combination

Rating Capacity range	HP		16	22	24	26	28	30
Model name			AJ*144GALHH	AJ*198GALHH	AJ*216GALHH	AJ*234GALHH	AJ*252GALHH	AJ*270GALHH
Unit 1 Unit 2 Unit 3			AJ*A72GALH AJ*A72GALH	AJ*126GALH AJ*A72GALH	AJ*A72GALH AJ*A72GALH AJ*A72GALH	AJ*A90GALH AJ*A72GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH AJ*A90GALH
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Maximum external static pressure	Pa		80	80	80	80	80	80
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930×2	930+1,240	930×3	930×3	930×3	930×3
	Depth	mm	765	765	765	765	765	765
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	˚C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

AJ* : AJY(FUJITSU), AJH(GENERAL)

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
AJ*234GALH	**AJ*252GALH**	**AJ*270GALH**	**AJ*288GALH**	**AJ*306GALH**	**AJ*324GALH**	**AJ*342GALH**	**AJ*360GALH**	**AJ*378GALH**	**AJ*396GALH**	**AJ*414GALH**	**AJ*432GALH**
AJ*144GALH AJ*90GALH	AJ*144GALH AJ*108GALH	AJ*144GALH AJ*126GALH	AJ*144GALH AJ*144GALH	AJ*108GALH AJ*108GALH AJ*A90GALH	AJ*108GALH AJ*108GALH AJ*108GALH	AJ*144GALH AJ*108GALH AJ*A90GALH	AJ*144GALH AJ*108GALH AJ*108GALH	AJ*144GALH AJ*144GALH AJ*A90GALH	AJ*144GALH AJ*144GALH AJ*108GALH	AJ*144GALH AJ*144GALH AJ*126GALH	AJ*144GALH AJ*144GALH AJ*144GALH
39	42	45	48	50	53	57	60	63	64	64	64
36.8-110.3	39.3-117.8	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.8	53.5-160.5	56.0-168.0	59.3-177.8	61.8-185.3	65.0-195.0	67.5-202.5
3-phase 4 wire , 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.5	123.5	130.0	135.0
81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
80	80	80	80	80	80	80	80	80	80	80	80
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
930+1,240	930+1,240	1,240×2	1,240×2	930×3	930×3	930×2+1,240	930×2+1,240	930+1,240×2	930+1,240×2	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44
AJ*288GALHH	**AJ*306GALHH**	**AJ*324GALHH**	**AJ*342GALHH**	**AJ*360GALHH**	**AJ*378GALHH**	**AJ*396GALHH**
AJ*126GALH AJ*A90GALH AJ*A72GALH	AJ*126GALH AJ*A90GALH AJ*A90GALH	AJ*126GALH AJ*126GALH AJ*A72GALH	AJ*126GALH AJ*126GALH AJ*A90GALH	AJ*144GALH AJ*126GALH AJ*A90GALH	AJ*126GALH AJ*126GALH AJ*126GALH	AJ*144GALH AJ*126GALH AJ*126GALH
48	51	54	57	60	64	64
44.9-134.1	48.0-143.8	51.2-153.6	54.0-162.0	56.8-170.2	60.0-180.0	62.5-187.5
3-phase 4 wire, 400 V, 50Hz						
90.4	96.0	102.4	108.0	113.0	120.0	125.0
101.5	108.0	115.0	121.5	126.5	135.0	140.0
80	80	80	80	80	80	80
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690
930×2+1,240	930×2+1,240	930+1,240×2	930+1,240×2	930+1,240×2	1,240×3	1,240×3
765	765	765	765	765	765	765
19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	34.92	34.92	34.92	34.92
34.92	34.92	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*1 Minimum connectable indoor unit number is 2.

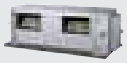
Indoor Unit Lineup

12 Types, 55 Models, Capacity range from 2.2kW to 25.0kW

Capacity range (kW)		2.2	2.8	3.6	4.5
Model code		7	9	12	14
Cassette	4-way Compact Cassette	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH
	4-way Cassette				
Concealed Duct	Low Static Pressure Duct	ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH
	Slim Duct (Drain pump internal)	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH
	Medium Static Pressure Duct				
	High Static Pressure Duct				
Floor	Floor standing (*Same as Ceiling models)			AB*A12GATH	AB*A14GATH
	Concealed Floor mounted (*Same as Low Static Pressure Duct models)	ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH
	Slim Concealed Floor mounted (*Same as Slim Duct models)	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH
Ceiling	Ceiling			AB*A12GATH	AB*A14GATH
Wall Mounted	Wall Mounted	AS*A07GACH	AS*A09GACH	AS*A1GACH	AS*A14GACH
	Wall Mounted (EEV external)	AS*E07GACH	AS*E09GACH	AS*E12GACH	AS*E14GACH With this model, connection of EV kit is necessary.

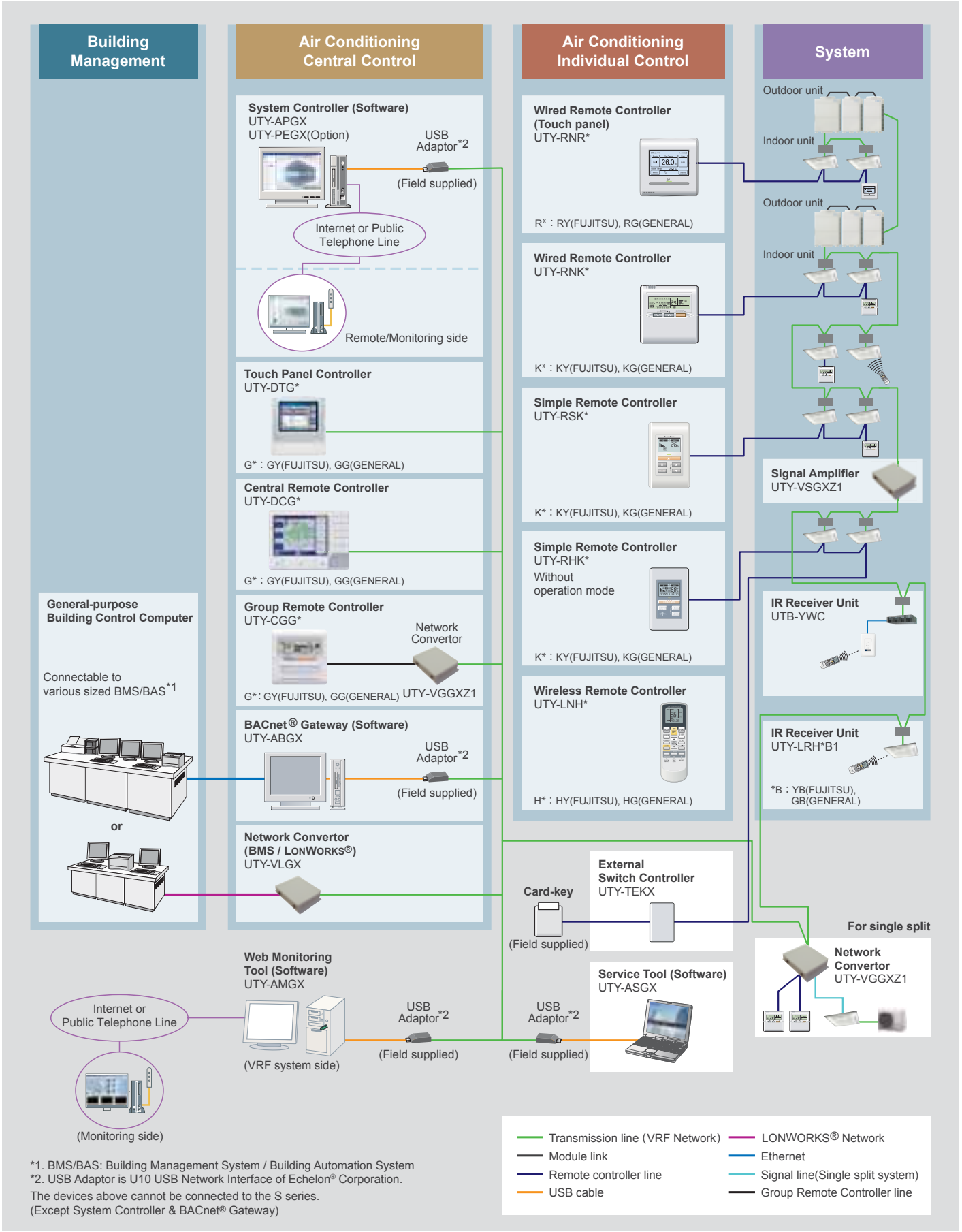
AB* : ABY(FUJITSU), ABH(GENERAL) AS* : ASY(FUJITSU), ASH(GENERAL)

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

5.6	7.1	9.0	11.2	12.5	14.0	18.0	22.4	25.0
18	24	30	36	45	54	60	72	90
AUXB18GALH	AUXB24GALH							
AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH			
ARXB18GALH	ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH				
ARXD18GALH	ARXD24GALH							
	ARXA24GALH	ARXA30GALH	ARXA36GALH	ARXA45GALH				
			ARXC36GATH	ARXC45GATH		 ARXC60GATH	ARXC72GATH	ARXC90GATH
AB*A18GATH	AB*A24GATH							
ARXB18GALH								
ARXD18GALH	ARXD24GALH							
AB*A18GATH	AB*A24GATH	AB*A30GATH	AB*A36GATH	AB*A45GATH	AB*A54GATH			
AS*A18GACH	AS*A24GACH	AS*A30GACH						

Control System

Every user's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.



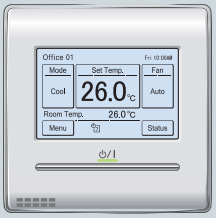
*1. BMS/BAS: Building Management System / Building Automation System
*2. USB Adaptor is U10 USB Network Interface of Echelon® Corporation.
The devices above cannot be connected to the S series.
(Except System Controller & BACnet® Gateway)

Individual controller

Wired Remote Controller (Touch panel)

UTY-RNR*

Max. controllable 16 indoor units



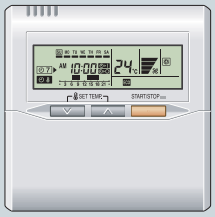
•Easy finger touch operation with LCD panel
•Built-in weekly/Daily timer(ON/OFF,Temp.,Mode)
•Temperature upper and lower limit setting
•Background light enables easy operation in a darkened room
•Anti-cool /Anti-heat and Anti-freeze setting
•Room temperature display
•Control up to 16 indoor units
•Corresponds to 7 different languages •Non-polar 2 wires

R* : RY(FUJITSU), RG(GENERAL)

Wired Remote Controller

UTY-RNK*

Max. controllable 16 indoor units



The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

•Simple operation with Built-in Weekly / Daily Timer.
•Control up to 16 indoor units.
•Up to 2 wired remote controllers can be connected to a single indoor unit.

K* : KY(FUJITSU), KG(GENERAL)

Simple Remote Controller

UTY-RSK*
UTY-RHK* (Without operation mode)

Max. controllable 16 indoor units

UTY-RSK*

UTY-RHK*
Without operation mode

Compact remote controller provides access to basic functions

•Up to 16 indoor units can be controlled with one remote controller.
•Suitable for hotels or offices as it is easily operated with no complex functions.

K* : KY(FUJITSU), KG(GENERAL)

Wireless Remote Controller

UTY-LNH*

Max. controllable 16 indoor units

Selectable 4 daily timers

UTY-LNH*

Simple and sophisticated operations with a choice of 4 daily timers

•A single controller controls up to 16 indoor units.

H* : HY(FUJITSU), HG(GENERAL)

IR Receiver Unit

UTB-YWC

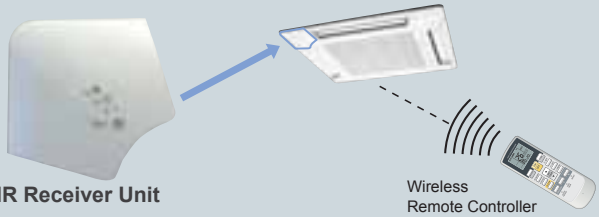
Necessary to control for all duct type by Wireless Remote Controller

IR Receiver Unit

IR Receiver Unit

UTY-LRH*B1

Cassette type indoor unit can be controlled with Wireless Remote Controller



IR Receiver Unit

*B : YB(FUJITSU), GB(GENERAL)

Control System

Central controller

Group Remote Controller

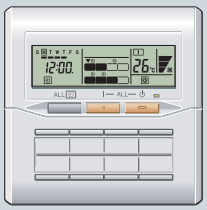
UTY-CGG*

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system.
  (Network Convertor allows up to 4 Group Remote Controllers)

Max. controllable 64 group R.C. in a VRF network system

Max. controllable 8 remote controller groups



G* : GY(FUJITSU), GG(GENERAL)

Central Remote Controller

UTY-DCG*

Central control of small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

Max. controllable 100 Indoor units

Max. controllable 16 groups

G* : GY(FUJITSU), GG(GENERAL)

Touch Panel Controller

UTY-DTG*

- Large-sized 7.5-inch TFT color
- Easy finger touch operation with LCD panel
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. controllable 400 indoor units

G* : GY(FUJITSU), GG(GENERAL)

System Controller (Software)

UTY-APGX

UTY-PEGX (Energy manager–Option)

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

Max. controllable 4 VRF network systems

Max. controllable 400 outdoor units

Max. controllable 1,600 indoor units

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- Supports VRF VR-II as well as J-II and V-II series.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese,French, German, Spanish, Russian, Polish)

Service & Maintenance Tool

Service Tool (Software)

UTY-ASGX

Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).
- Supports VRF VR-II as well as J-II and V-II series

Max. Monitor and controll 400 indoor units

Max. Monitor and controll 100 outdoor units

Service & Maintenance Tool

Web Monitoring Tool (Software)

UTY-AMGX

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- Supports VRF VR-II as well as J-II and V-II series

VRF network system can be supported **4**

1,600 indoor units can be supported

*1: Use of internet mail system required.

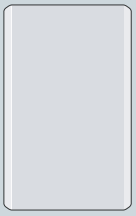
Convertor/Adaptor

External Switch Controller

UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.

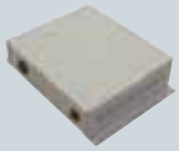


Network Convertor

UTY-VGGXZ1

Max. controllable **16** Network Convertor units

- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
  Please select the function by switching the dip switch during the installation.



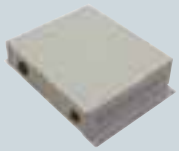
Network Convertor for LONWORKS®

UTY-VLGX

Max. controllable **4** Units to BMS

Max. controllable **128** indoor units

- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.



BACnet® Gateway (Software)

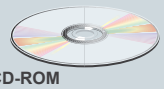
UTY-ABGX

Max. controllable **4** VRF network systems

Max. controllable **400** outdoor units

Max. controllable **1,600** indoor units

- The VRF network system can be incorporated into a Building Management System.
- Enables central control of up to 1,600 indoor units through BACnet®, a global standard for open networks.
- Conforms to ANSI / ASHRAE Standards® 135-2004 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- Connects up to 4 VRF network systems (1,600 indoor units / 400 outdoor units) per gateway.
- Supports VRF VR-II as well as J-II and V-II series



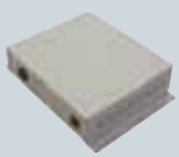
CD-ROM (Software)

Software Protection Key

Signal Amplifier

UTY-VSGXZ1

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifier.
- Multiple Signal Amplifier are required according to the total wiring length or total number of connectable units.
- A Signal Amplifier has filter function for communication. It is required every VRF refrigerant system in a parallel transmission connection when the total number of indoor units exceeds 320.



Refrigerant piping parts

RB unit

Type		Single type			Multi type
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Number of branch		1	1	1	4
Total connection capacity of indoor unit per 1 connection port(Q)	kW	Q≦8.0	Q≦18.0	Q≦28.0	Q≦18.0
Number of connectable indoor unit per 1 connction port		3	8	8	8
Dimensions (H×W×D)	mm	198X298X268			260X654X428

ISO 9001 Certified number : 01 100 89394 ISO 14001 Certified number : 01 104 9245101
Fujitsu General (Thailand) Co., Ltd.

ISO 9001 Certified number : 01 100 79269 ISO 14001 Certified number : 272043
Fujitsu General (Shanghai) Co., Ltd.

ISO 9001 Certified number : 00608Q11061R2M ISO 14001 Certified number : 00609E20454R2M
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

N807

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